

FIG. 6

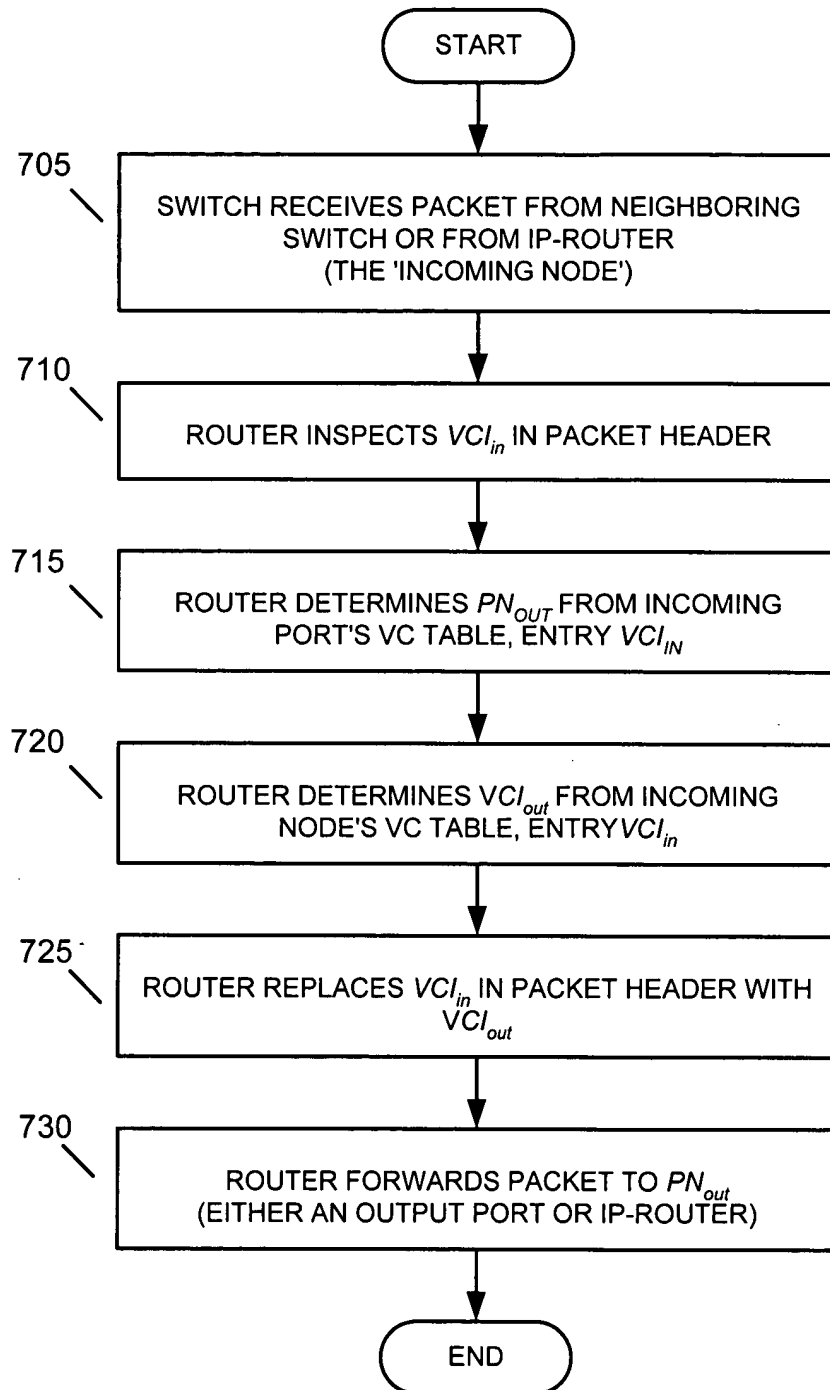


FIG. 7

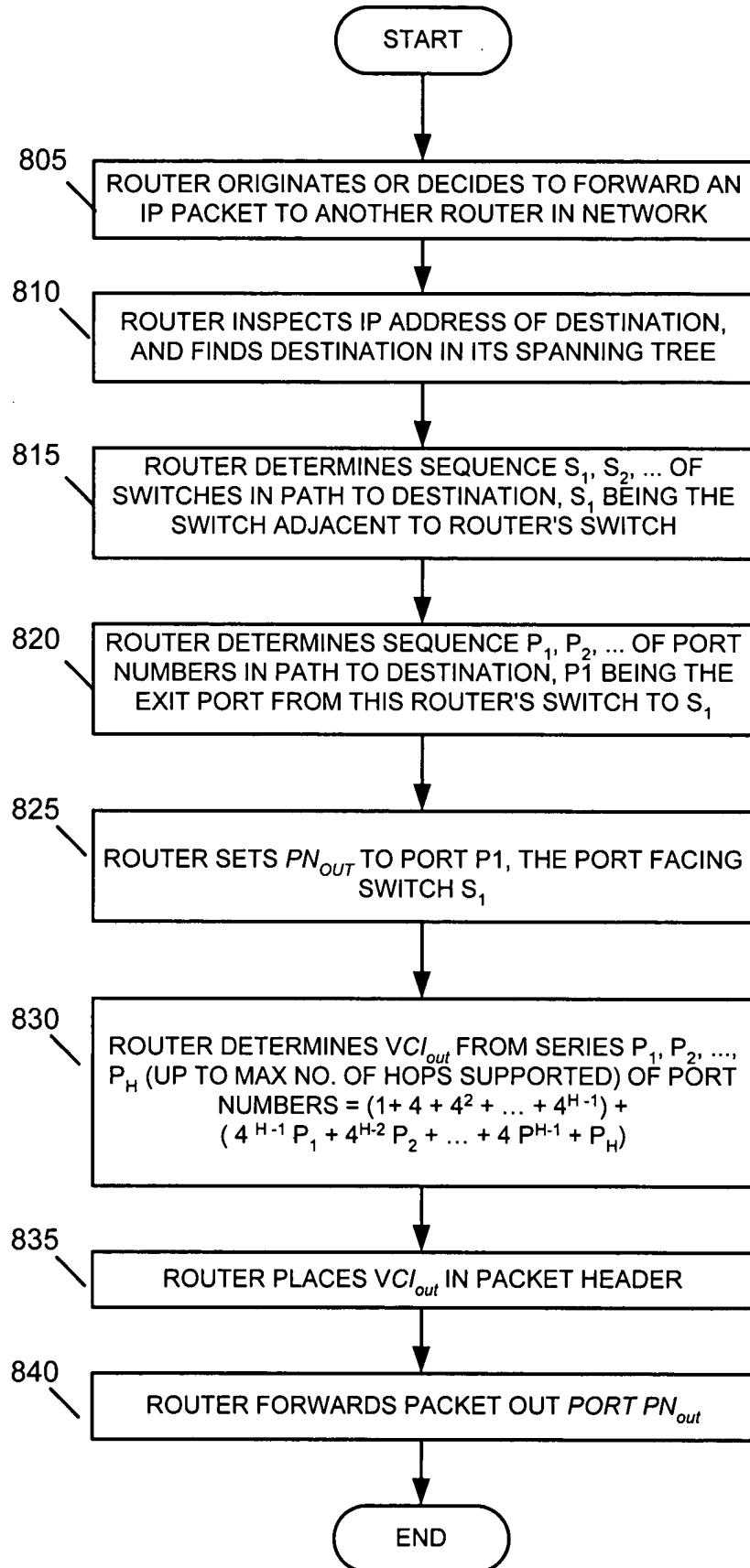


FIG. 8

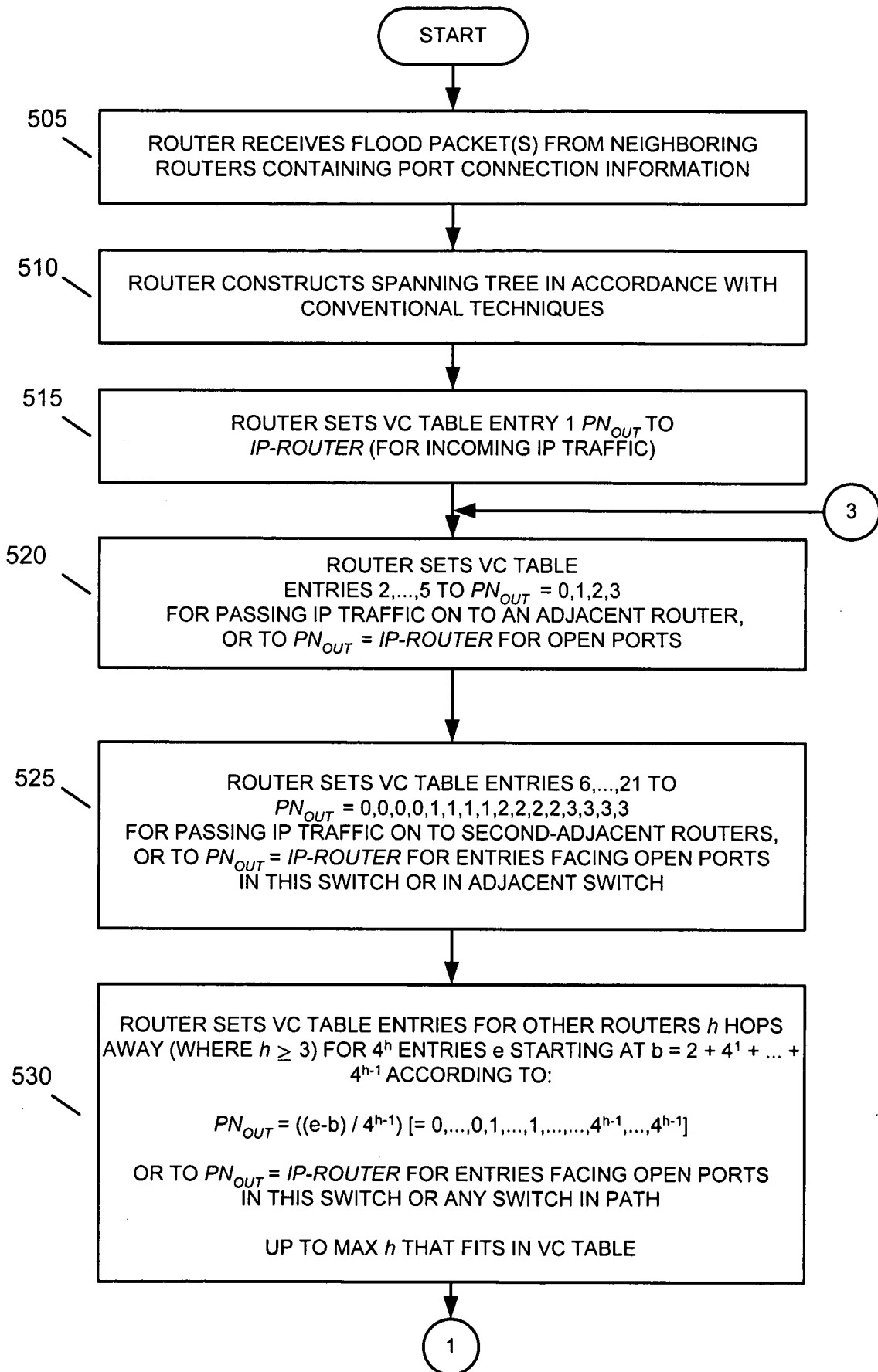


FIG. 5

400

ROUTER# 405		ROUTER_B		
SEQ. # 410		SEQ_NUM		
NO. OF PORTS 415		VC BASE ENTRY NO. 420		MAX NO. OF HOPS SUPPORTED 425
LINKS 430	TO A	TO G	TO D	OPEN
METRICS 435	M_1	M_2	M_3	--
PORT NUMBER 440	0	1	2	3

FIG. 4

VC TABLE 300

VC ENTRY 305	SWITCH OUTPUT PORT (PN_{OUT}) 310	VCI_{out} 315	VIRTUAL CIRCUIT LENGTH
1	IP ROUTER	1	0 HOPS -> IP
2	Port 0	1	1 HOP -- PN_0 -> IP
3	Port 1	1	1 HOP -- PN_1 -> IP
4	Port 2	1	1 HOP -- PN_2 -> IP
5	Port 3	1	1 HOP -- PN_3 -> IP
6	Port 0	2	2 HOPS -- PN_0 -> PN_0 -> IP
7	Port 0	3	2 HOPS -- PN_0 -> PN_1 -> IP
8	Port 0	4	2 HOPS -- PN_0 -> PN_2 -> IP
9	Port 0	5	2 HOPS -- PN_0 -> PN_3 -> IP
10	Port 1	2	2 HOPS -- PN_1 -> PN_0 -> IP
11	Port 1	3	2 HOPS -- PN_1 -> PN_1 -> IP
12	Port 1	4	2 HOPS -- PN_1 -> PN_2 -> IP
13	Port 1	5	2 HOPS -- PN_1 -> PN_3 -> IP
14	Port 2	2	2 HOPS -- PN_2 -> PN_0 -> IP
15	Port 2	3	2 HOPS -- PN_2 -> PN_1 -> IP
16	Port 2	4	2 HOPS -- PN_2 -> PN_2 -> IP
17	Port 2	5	2 HOPS -- PN_2 -> PN_3 -> IP
18	Port 3	2	2 HOPS -- PN_3 -> PN_0 -> IP
19	Port 3	3	2 HOPS -- PN_3 -> PN_1 -> IP
20	Port 3	4	2 HOPS -- PN_3 -> PN_2 -> IP
21	Port 3	5	2 HOPS -- PN_3 -> PN_3 -> IP

FIG. 3

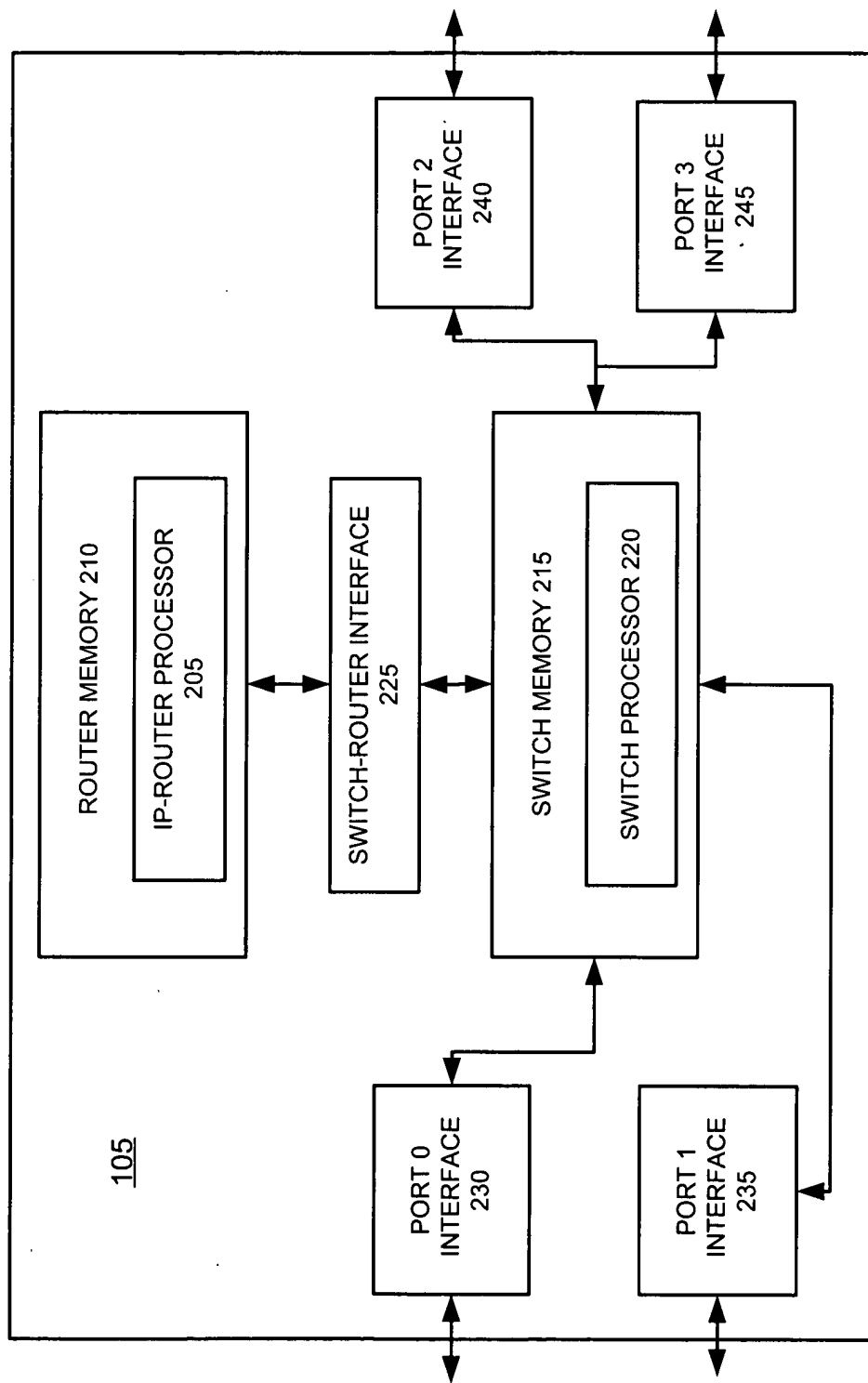


FIG. 2

FIG. 1 is a schematic diagram of a network 100. The network consists of nine nodes, labeled A through I, each represented by a circle containing a letter and a number. The nodes are interconnected by lines representing connections, with each connection labeled with a port number.

- Node A (105):** Located at the bottom left. It has four ports: PORT 0 (bottom left), PORT 1 (bottom right), PORT 2 (top right), and PORT 3 (top left).
- Node B (110):** Located to the right of Node A. It has two ports: PORT 0 (bottom left, connected to A) and PORT 2 (top right).
- Node C (115):** Located to the right of Node A. It has two ports: PORT 1 (top left, connected to A) and PORT 0 (bottom right).
- Node D (120):** Located to the right of Node B. It has two ports: PORT 0 (bottom left, connected to B) and PORT 2 (top right).
- Node E (125):** Located to the right of Node C. It has two ports: PORT 0 (bottom left, connected to C) and PORT 2 (top right).
- Node F (130):** Located to the right of Node E. It has three ports: PORT 3 (bottom left, connected to E), PORT 0 (bottom right, connected to D), and PORT 1 (top right).
- Node G (135):** Located to the right of Node B. It has two ports: PORT 0 (bottom left, connected to B) and PORT 1 (top right).
- Node H (140):** Located to the right of Node F. It has two ports: PORT 0 (bottom left, connected to F) and PORT 1 (top right).
- Node I (145):** Located to the right of Node G. It has two ports: PORT 1 (bottom left, connected to G) and PORT 0 (top right).

The network 100 is shown as a collection of these nodes and their interconnections. The label "100" is placed in the center of the diagram.